

850 Purchase Order

FUNCTIONAL GROUP ID - **PO**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Header

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat
5	010	ST	Transaction Set Header	M	1	
6	020	BEG	Beginning Segment for Purchase Order	M	1	
Not Used	030	NTE	Note/Special Instruction	F	100	
7	040	CUR	Currency	O	1	
9	050	REF	Reference Numbers	O	12	
Not Used	060	PER	Administrative Communications Contact	O	3	
Not Used	070	TAX	Tax Reference	O	3	
10	080	FOB	F.O.B. Related Instructions	O	1	
Not Used	090	CTP	Pricing Information	O	25	
Not Used	100	SSS	Special Services	O	25	
Not Used	110	CSH	Header Sale Condition	O	5	
Not Used	120	ITA	Allowance, Charge or Service	O	10	
12	130	ITD	Terms of Sale/Deferred Terms of Sale	O	5	
Not Used	140	DIS	Discount Detail	O	20	
Not Used	145	INC	Installment Information	O	1	
14	150	DTM	Date/Time Reference	O	10	
Not Used	160	LDT	Lead Time	O	12	
Not Used	180	LIN	Item Identification	O	5	
Not Used	185	SI	Service Characteristic Identification	O	2	
Not Used	190	PID	Product/Item Description	O	200	
Not Used	200	MEA	Measurements	O	40	
15	210	PWK	Paperwork	O	25	
Not Used	220	PKG	Marking, Packaging, Loading	O	200	
Not Used	230	TD1	Carrier Details (Quantity and Weight)	O	2	
16	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
Not Used	250	TD3	Carrier Details (Equipment)	O	12	
Not Used	260	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5	
Not Used	270	MAN	Marks and Numbers	O	10	

Not Used	280	CTB	Restrictions/ Conditions	O	5	
Not Used	290	N9	Reference Number	O	1	1000
Not Used	300	MSG	Message Text	O	1000	
18	310	N1	Name	O	1	200
19	320	N2	Additional Name Information	O	2	
20	330	N3	Address Information	O	2	
21	340	N4	Geographic Location	O	1	
Not Used	345	NX2	Real Estate Property ID Component	O	3	
Not Used	350	REF	Reference Numbers	O	12	
22	360	PER	Administrative Communications Contact	O	3	
Not Used	370	FOB	F.O.B. Related Instructions	O	1	
Not Used	380	TD1	Carrier Details (Quantity and Weight)	O	2	
Not Used	390	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
Not Used	400	TD3	Carrier Details (Equipment)	O	12	
Not Used	410	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5	
Not Used	420	PKG	Marking, Packaging, Loading	O	200	

Detail

24	010	PO1	Baseline Item Data	M	1	100000
Not Used	018	SI	Service Characteristic Identification	O	5	
Not Used	020	CUR	Currency	O	1	
Not Used	030	PO3	Additional Item Detail	O	25	
Not Used	040	CTP	Pricing Information	O	25	
Not Used	049	MEA	Measurements	O	40	
27	050	PID	Product/Item Description	O	1	1000
Not Used	060	MEA	Measurements	O	10	
29	070	PWK	Paperwork	O	25	
31	080	PKG	Marking, Packaging, Loading	O	200	
Not Used	090	PO4	Item Physical Details	O	1	
33	100	REF	Reference Numbers	O	12	
34	110	PER	Administrative Communications Contact	O	3	
35	120	SSS	Special Services	O	25	
36	130	ITA	Allowance, Charge or Service	O	10	
Not Used	140	IT8	Conditions of Sale	O	1	
Not Used	150	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
Not Used	160	DIS	Discount Detail	O	20	
Not Used	165	INC	Installment Information	O	1	
39	170	TAX	Tax Reference	O	3	
Not Used	180	FOB	F.O.B. Related Instructions	O	1	

Not Used	190	SDQ	Destination Quantity	O	500	
Not Used	200	IT3	Additional Item Data	O	5	
41	210	DTM	Date/Time Reference	O	10	
Not Used	220	LDT	Lead Time	O	12	
42	230	SCH	Line Item Schedule	O	200	
Not Used	235	TC2	Commodity	O	2	
Not Used	240	TD1	Carrier Details (Quantity and Weight)	O	1	
44	250	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
Not Used	260	TD3	Carrier Details (Equipment)	O	12	
Not Used	270	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5	
Not Used	280	MAN	Marks and Numbers	O	10	
Not Used	290	AMT	Monetary Amount	O	1	
Not Used	330	N9	Reference Number	O	1	1000
Not Used	340	MSG	Message Text	O	1000	
46	350	N1	Name	O	1	200
47	360	N2	Additional Name Information	O	2	
48	370	N3	Address Information	O	2	
49	380	N4	Geographic Location	O	1	
Not Used	385	NX2	Real Estate Property ID Component	O	3	
Not Used	390	REF	Reference Numbers	O	12	
Not Used	400	PER	Administrative Communications Contact	O	3	
Not Used	410	FOB	F.O.B. Related Instructions	O	1	
Not Used	420	TD1	Carrier Details (Quantity and Weight)	O	2	
Not Used	430	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
Not Used	440	TD3	Carrier Details (Equipment)	O	12	
Not Used	450	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5	
Not Used	460	PKG	Marking, Packaging, Loading	O	200	
50	470	SLN	Subline Item Detail	O	1	1000
Not Used	480	SI	Service Characteristic Identification	O	5	
53	490	PID	Product/Item Description	O	1000	
Not Used	500	PO3	Additional Item Detail	O	104	
Not Used	505	TC2	Commodity	O	2	
Not Used	510	ITA	Allowance, Charge or Service	O	10	
Not Used	520	DTM	Date/Time Reference	O	10	
Not Used	530	N1	Name	O	1	10
Not Used	540	N2	Additional Name Information	O	2	
Not Used	550	N3	Address Information	O	2	
Not Used	560	N4	Geographic Location	O	1	

Not Used	570	NX2	Real Estate Property ID Component	O	3	
Not Used	580	REF	Reference Numbers	O	12	
Not Used	590	PER	Administrative Communications Contact	O	3	

Summary

55	010	CTT	Transaction Totals	M	1	
57	020	AMT	Monetary Amount	O	1	
58	030	SE	Transaction Set Trailer	M	1	

FINAL

Segment: **ST** Transaction Set Header
Level: Header
Loop: ____
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Semantic: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set.	
		850 X12.1 Purchase Order	
ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		The transaction set control number assigned by the originator is sequentially assigned within each functional group. The same control number will also appear in the SE segment (SE02) in the Summary Area for the transaction set.	

Segment: **BEG** Beginning Segment for Purchase Order
Level: Header
Loop: ____
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the purchase order transaction set and transmit identifying numbers and dates.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
BEG01	353	Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set.	
		00 Original	
		"00" is used when this is the first time that the order is given to the supplier.	
		06 Confirmation	
		"06" is used when a verbal or other (non-EDI) purchase order has been given to the supplier.	
		07 Duplicate	
		"07" denotes a true duplicate; no changes have been made to the order.	
BEG02	92	Purchase Order Type Code	M ID 2/2
		Code specifying the type of Purchase Order.	
		CF Confirmation	
		RL Release or Delivery Order	
		SA Stand-alone Order	
BEG03	324	Purchase Order Number	M AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser.	
BEG04	328	Release Number	O AN 1/30
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.	
		Recommended by PIDX	
		Used when BEG02 = RL	
BEG05	323	Purchase Order Date	M DT 6/6
		Date assigned by the purchaser to Purchase Order.	
BEG06	367	Contract Number	O AN 1/30
		Contract number.	
BEG07	587	Acknowledgment Type	O ID 2/2
		Code specifying the type of acknowledgment.	
		Not Used by PIDX	
BEG08	1019	Invoice Type Code	O ID 3/3
		Code defining the method by which invoices are to be processed.	
		INR Invoice Not Required (Such As Evaluated Receipts Settlements)	

Segment: **CUR** Currency
Level: Header
Loop: _____
Usage: Optional
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax:

- 1 **C0807**
If CUR08 is present, then CUR07 is required.
- 2 **C0907**
If CUR09 is present, then CUR07 is required.
- 3 **C1110**
If CUR11 is present, then CUR10 is required.
- 4 **C1210**
If CUR12 is present, then CUR10 is required.
- 5 **C1413**
If CUR14 is present, then CUR13 is required.
- 6 **C1513**
If CUR15 is present, then CUR13 is required.
- 7 **C1716**
If CUR17 is present, then CUR16 is required.
- 8 **C1816**
If CUR18 is present, then CUR16 is required.
- 9 **C2019**
If CUR20 is present, then CUR19 is required.
- 10 **C2119**
If CUR21 is present, then CUR19 is required.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CUR01	98	Entity Identifier Code	M ID 2/2 Code identifying an organizational entity, a physical location, or an individual
CUR02	100	Currency Code	M ID 3/3 Code (Standard ISO) for country in whose currency the charges are specified.
CUR03	280	Exchange Rate	O R 4/6 Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.
CUR04	98	Entity Identifier Code	O ID 2/2 Code identifying an organizational entity, a physical location, or an individual
CUR05	100	Currency Code	O ID 3/3 Code (Standard ISO) for country in whose currency the charges are specified.
CUR06	669	Currency Market/Exchange Code	O ID 3/3 Code identifying the market upon which the currency exchange rate is based.
CUR07	374	Date/Time Qualifier	C ID 3/3 Code specifying type of date or time, or both date and time.
CUR08	373	Date	O DT 6/6 Date (YYMMDD).

CUR09	337	Time	O TM 4/6 Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)
CUR10	374	Date/Time Qualifier	C ID 3/3 Code specifying type of date or time, or both date and time.
CUR11	373	Date	O DT 6/6 Date (YYMMDD).
CUR12	337	Time	O TM 4/6 Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)
CUR13	374	Date/Time Qualifier	C ID 3/3 Code specifying type of date or time, or both date and time.
CUR14	373	Date	O DT 6/6 Date (YYMMDD).
CUR15	337	Time	O TM 4/6 Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)
CUR16	374	Date/Time Qualifier	C ID 3/3 Code specifying type of date or time, or both date and time.
CUR17	373	Date	O DT 6/6 Date (YYMMDD).
CUR18	337	Time	O TM 4/6 Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)
CUR19	374	Date/Time Qualifier	C ID 3/3 Code specifying type of date or time, or both date and time.
CUR20	373	Date	O DT 6/6 Date (YYMMDD).
CUR21	337	Time	O TM 4/6 Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)

Segment: **REF** Reference Numbers

Level: Header

Loop: _____

Usage: Optional

Max Use: 12

Purpose: To specify identifying numbers.

Syntax: 1 R0203
At least one of REF02 or REF03 is required.

Notes: This segment is not to be used for additional "Ship To" information.

The REF segment is used only for accounting description and/or codes. If used, at least one of the following qualifiers is required which is provided by the customer: "AE", "CR", "DJ", "LU", or "WN". The direction of PIDX is to move toward the use of a single qualifier ("CR").

The REF segment is not commonly used at both the Header and Detail Level. It is preferred to be used at the Header Level or Detail Level, but not both. It may be used at both the Header Level and Detail Level where business issues dictate between trading partners.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
		AE Authorization for Expense (AFE) Number	
		CR Customer Reference Number	
		DJ Delivery Ticket Number	
		LU Location Number	
		WN Well Number	
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80

Segment: **FOB** F.O.B. Related Instructions

Level: Header

Loop: _____

Usage: Optional

Max Use: 1

Purpose: To specify transportation instructions relating to shipment

Syntax: 1 C0302
If FOB03 is present, then FOB02 is required.

2 C0405
If FOB04 is present, then FOB05 is required.

3 C0706
If FOB07 is present, then FOB06 is required.

4 C0809
If FOB08 is present, then FOB09 is required.

Semantic: 1 FOB01 indicates which party will pay the carrier.
2 FOB02 is the code specifying transportation responsibility location.
3 FOB06 is the code specifying the title passage location.
4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
FOB01	146	Shipment Method of Payment Code identifying payment terms for transportation charges.	M ID 2/2
		CC Collect	
		CF Collect, Freight Credited Back to Customer	
		NC Service Freight, No Charge	
		PB Customer Pick-up/Backhaul	
		PC Prepaid but Charged to Customer	
		PP Prepaid (by Seller)	
		PU Pickup	
		TP Third Party Pay	
FOB02	309	Location Qualifier Code identifying type of location.	C ID 1/2
		DE Destination (Shipping)	
		FE Freight Equalization Point	
		OA Origin (After Loading on Equipment)	
		OR Origin (Shipping Point)	
		OV On Vessel (Free On Board [FOB] point)	

		PL Plant		
		WH Warehouse		
FOB03	352	Description A free-form description to clarify the related data elements and their content.	O AN	1/80
FOB04	334	Transportation Terms Qualifier Code Code identifying the source of the transportation terms.	O ID	2/2
Not Recommended by PIDX				
FOB05	335	Transportation Terms Code Code identifying the trade terms which apply to the shipment transportation responsibility.	C ID	3/3
Not Recommended by PIDX				
FOB06	309	Location Qualifier Code identifying type of location.	C ID	1/2
DE Destination (Shipping)				
FE Freight Equalization Point				
OA Origin (After Loading on Equipment)				
OR Origin (Shipping Point)				
OV On Vessel (Free On Board [FOB] point)				
PL Plant				
WH Warehouse				
FOB07	352	Description A free-form description to clarify the related data elements and their content.	O AN	1/80
Not Recommended by PIDX				
FOB08	54	Risk of Loss Qualifier Code specifying where responsibility for risk of loss passes.	O ID	2/2
Not Recommended by PIDX				
FOB09	352	Description A free-form description to clarify the related data elements and their content.	C AN	1/80
Not Recommended by PIDX				

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Level: Header
Loop: ____
Usage: Optional
Max Use: 5
Purpose: To specify terms of sale.
Syntax: **1 L03040513**
 If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 are required.
2 L08040513
 If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 are required.
3 L091011
 If ITD09 is present, then at least one of ITD10 or ITD11 are required.
Semantic: **1** ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments: **A** If the code in ITD01 is 04, then ITD09 is required and either ITD10 or ITD11 is required. If the code in ITD01 equals 05, then ITD06 or ITD07 is required.
Notes: **The term "Discount" is payment discount, not pricing discount.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ITD01	336	Terms Type Code Code identifying type of payment terms.	O ID 2/2
Not Recommended by PIDX			
ITD02	333	Terms Basis Date Code Code identifying the beginning of the terms period.	O ID 1/2
Required by PIDX			
2 Delivery Date For ERS (Evaluated Receipt Settlements) functionality.			
3 Invoice Date			
5 Invoice Receipt Date			
ITD03	338	Terms Discount Percent Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.	O R 1/6
Recommended by PIDX			
ITD04	370	Terms Discount Due Date Date payment is due if discount is to be earned.	C DT 6/6
Not Recommended by PIDX			

ITD05	351	Terms Discount Days Due Number of days in the terms discount period by which payment is due if terms discount is earned.	C N0	1/3
Recommended by PIDX				
If ITD03 is sent, ITD05 is required. ITD03 must be greater than zero.				
ITD06	446	Terms Net Due Date Date when total invoice amount becomes due.	O DT	6/6
Not Recommended by PIDX				
ITD07	386	Terms Net Days Number of days until total invoice amount is due (discount not applicable).	O N0	1/3
ITD08	362	Terms Discount Amount Total amount of terms discount.	O N2	1/10
Not Recommended by PIDX				
ITD09	388	Terms Deferred Due Date Date deferred payment or percent of invoice payable is due.	O DT	6/6
Not Recommended by PIDX				
ITD10	389	Deferred Amount Due Deferred amount due for payment.	C N2	1/10
ITD11	342	Percent of Invoice Payable Amount of invoice payable expressed in percent.	C R	1/5
ITD12	352	Description A free-form description to clarify the related data elements and their content.	O AN	1/80
ITD10 - ITD12 are to be used for any special terms, ie: Retainage.				
ITD13	765	Day of Month The numeric value of the day of the month between 1 and the maximum day of the month being referenced.	C N0	1/2
Not Recommended by PIDX				
ITD14	107	Payment Method Code Code identifying type of payment procedures.	O ID	1/1
Not Recommended by PIDX				
ITD15	954	Percent Percentage expressed as a decimal	O R	1/10
Not Recommended by PIDX				

Segment: DTM Date/Time Reference
Level: Header
Loop: _____
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax: 1 R0203
At least one of DTM02 or DTM03 is required.

Notes: The DTM segment is not commonly used at both the Header and Detail level. It is preferred to be used at the Header Level or Detail Level, but not both.

Data Element Summary

REF. DIS.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
002 Delivery Requested 010 Requested Ship 074 Requested for Delivery 079 Promised for Shipment 150 Service Period Start 151 Service Period End			
DTM02	373	Date Date (YYMMDD).	C DT 6/6
Required by PIDX			
DTM03	337	Time Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	C TM 4/6
DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time. Since + is a restricted character, + and - are substituted by P and M in the codes that follow.	O ID 2/2
DTM05	624	Century The first two characters in the designation of the year (CCYY).	O N0 2/2

Segment: **PWK** Paperwork
Level: Header
Loop: ____
Usage: Optional
Max Use: 25
Purpose: To identify the type and transmission of paperwork or supporting information
Syntax: 1 **P0506**
 If either PWK05 or PWK06 is present, then the other is required.
Comments: A PWK05 and PWK06 may be used to identify the addressee by a code number.
 B PWK07 may be used to indicate special information to be shown on the specified report.
 C PWK08 may be used to indicate action pertaining to a report.
Notes: **The PWK segment is not commonly used at both the Header and Detail Level. It is preferred to be used at the Header Level or Detail Level, but not both.**
This segment should be used only if "Attached" paperwork is applicable.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PWK01	755	Report Type Code Code indicating the title or contents of a document, report or supporting item	M ID 2/2
PWK02	756	Report Transmission Code Code defining timing, transmission method or format by which reports are to be sent	O ID 2/2
PWK03	757	Report Copies Needed The number of copies of a report that should be sent to the addressee.	O N0 1/2
PWK04	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	O ID 2/2
PWK05	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
PWK06	67	Identification Code Code identifying a party or other code.	C AN 2/17
PWK07	352	Description A free-form description to clarify the related data elements and their content.	O AN 1/80
PWK08	704	Paperwork/Report Action Code Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required.	O ID 1/2

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time)
Level: Header
Loop: ____
Usage: Optional
Max Use: 12
Purpose: To specify the carrier, sequence of routing and to provide transit time information
Syntax: 1 **R0204050612**
 At least one of TD502, TD504, TD505, TD506 or TD512 is required.
 2 **C0203**
 If TD502 is present, then TD503 is required.
 3 **C0708**
 If TD507 is present, then TD508 is required.
 4 **C1011**
 If TD510 is present, then TD511 is required.
Comments: A When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement: use TD502 to identify the party responsible for defining the routing sequence; use TD503 to identify the actual routing sequence, specified by the party identified in TD502.
Notes: **The TD5 segment is not commonly used at both the Header and Detail Level. It is preferred to be used at the Header Level or Detail Level, but not both.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement. B Origin/Delivery Carrier (Any Mode) O Origin Carrier (Air, Motor, or Ocean)	O ID 1/2
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67). 30 American Petroleum Institute Location Code 6 Plant Code 7 Dock	C ID 1/2
TD503	67	Identification Code Code identifying a party or other code.	C AN 2/17
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment. A Air AE Air Express	C ID 1/2

		D Parcel Post			
		E Expedited Truck			
		H Customer Pickup			
		M Motor (Common Carrier)			
		R Rail			
		S Ocean			
		SR Supplier Truck			
		T Best Way (Shippers Option)			
TD505	387	Routing	C AN	1/35	Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.
TD506	368	Shipment/Order Status Code	C ID	2/2	Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction.
TD507	309	Location Qualifier	O ID	1/2	Code identifying type of location.
TD508	310	Location Identifier	C AN	1/25	Code which identifies a specific location.
TD509	731	Transit Direction Code	O ID	2/2	The point of origin and point of direction.
TD510	732	Transit Time Direction Qualifier	O ID	2/2	Code specifying the value of time used to measure the transit time.
TD511	733	Transit Time	C R	1/4	The numeric amount of transit time.
TD512	284	Service Level Code	C ID	2/2	Code defining service

Segment: **N1** Name
Level: Header
Loop: N1 **Repeat:** 200
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name and code
Syntax: **1 R0203**
At least one of N102 or N103 is required.
2 P0304
If either N103 or N104 is present, then the other is required.
Comments: **A** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Notes: **Required by PIDX**
At minimum, "BS" or a "BT" and a "ST" must be used.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
		BS Bill and Ship To	
		BT Party to be Billed For Other Than Freight(Bill To)	
		SE Selling Party	
		ST Ship To	
N102	93	Name	C AN 1/35
		Free-form name.	
N103	66	Identification Code Qualifier	C ID 1/2
		Code designating the system/method of code structure used for Identification Code (67).	
		Recommended by PIDX	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		DUNS+4 is the API Recommended Practice.	
		91 Assigned by Seller or Seller's Agent	
		92 Assigned by Buyer or Buyer's Agent	
N104	67	Identification Code	C AN 2/17
		Code identifying a party or other code.	
		Recommended by PIDX	

Segment: N2 Additional Name Information
Level: Header
Loop: N1
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N201	93	Name Free-form name.	M AN 1/35
N202	93	Name Free-form name.	O AN 1/35

FINAL

Segment: N3 Address Information
Level: Header
Loop: N1
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N301	166	Address Information Address information	M AN 1/35
N302	166	Address Information Address information	O AN 1/35

FINAL

Segment: **N4** Geographic Location
Level: Header
Loop: N1
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax: 1 **R0105**
 At least one of N401 or N405 is required.
 2 **P0506**
 If either N405 or N406 is present, then the other is required.
Comments: A A combination of either N401 through N404 (or N405 and N406) may be adequate to specify a location.
 B N402 is required only if city name (N401) is in the USA or Canada.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N401	19	City Name Free-form text for city name.	C AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency. Code list in: STATES AND OUTLYING AREAS OF THE USA (SD) Catalog No. C52. 13:5-1 Available from: Superintendent of Documents U.S. Government Printing Office Washington, DC 20402 Refer to API Bulletin D12A	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States).	O ID 3/9
N404	26	Country Code Code identifying the country. Code list in: CODES FOR REPRESENTATION OF NAMES OF COUNTRIES (ISO 3166-1974 (E)) Available from: American National Standards Institute 1430 Broadway New York, NY 10018 Refer to API Bulletin D12A	O ID 2/3
N405	309	Location Qualifier Code identifying type of location.	C ID 1/2
N406	310	Location Identifier Code which identifies a specific location.	C AN 1/25

Segment: **PER** Administrative Communications Contact
Level: Header
Loop: N1
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax: 1 **P0304**
 If either PER03 or PER04 is present, then the other is required.
 2 **P0506**
 If either PER05 or PER06 is present, then the other is required.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named. BD Buyer Name or Department BD is identified as Purchase/Purchasing Agent. DC Delivery Contact OC Order Contact OC is identified as the person who initiated the order. SR Sales Representative or Department	M ID 2/2
PER02	93	Name Free-form name. Recommended by PIDX	O AN 1/35
PER03	365	Communication Number Qualifier Code identifying the type of communication number. ED Electronic Data Interchange Access Number ED Qualifier is used pending the approval of a new qualifier for Employee Identification Code. EM Electronic Mail FX Facsimile TE Telephone TL Telex	C ID 2/2
PER04	364	Communication Number Complete communications number including country or area code when applicable.	C AN 1/25
PER05	365	Communication Number Qualifier Code identifying the type of communication number. ED Electronic Data Interchange Access Number ED Qualifier is used pending the approval of a new qualifier for Employee Identification Code. EM Electronic Mail	C ID 2/2

		FX Facsimile	
		TE Telephone	
		TL Telex	
PER06	364	Communication Number	C AN 1/25

Complete communications number including country or area code when applicable.

FINAL

Segment: **PO1** Baseline Item Data
Level: Detail
Loop: PO1 **Repeat:** 100000
Usage: Mandatory
Max Use: 1
Purpose: To specify basic and most frequently used line item data
Set Notes: 1 PO102 is required
Syntax: 1 **C0302**
 If PO103 is present, then PO102 is required.
 2 **C0504**
 If PO105 is present, then PO104 is required.
 3 **C0607**
 If PO106 is present, then PO107 is required.
 4 **C0809**
 If PO108 is present, then PO109 is required.
 5 **C1011**
 If PO110 is present, then PO111 is required.
 6 **C1213**
 If PO112 is present, then PO113 is required.
 7 **C1415**
 If PO114 is present, then PO115 is required.
 8 **C1617**
 If PO116 is present, then PO117 is required.
 9 **C1819**
 If PO118 is present, then PO119 is required.
 10 **C2021**
 If PO120 is present, then PO121 is required.
 11 **C2223**
 If PO122 is present, then PO123 is required.
 12 **C2425**
 If PO124 is present, then PO125 is required.
Comments: A See the Data Dictionary for a complete list of ID's.
 B PO101 is the line item identification
 C PO106 through PO125 provide for ten (10) different product/service ID's per each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PO101	350	Assigned Identification	O AN 1/11
		Alphanumeric characters assigned for differentiation within a transaction set.	
		Required by PIDX	

PO102	330	Quantity Ordered Quantity ordered.	C R	1/9
Required by PIDX				
PO103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID	2/2
Required by PIDX				
PO104	212	Unit Price Price per unit of product, service, commodity, etc.	C R	1/14
PO105	639	Basis of Unit Price Code Code identifying the type of unit price for an item.	O ID	2/2
PO106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
Recommended by PIDX				
CB Buyer's Catalog Number				
CG Commodity Grouping The CG qualifier is to be used pending the approval of a new qualifier for Common Codes. WC is the proposed code. This will identify the WORLD CODE (CIMIS Number).				
CQ Equipment Code per COPAS standard				
MG Manufacturer's Part Number				
MN Model Number				
VN Vendor's (Seller's) Item Number				
PO107	234	Product/Service ID Identifying number for a product or service.	C AN	1/30
Recommended by PIDX				
PO108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO109	234	Product/Service ID Identifying number for a product or service.	C AN	1/30
PO110	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO111	234	Product/Service ID Identifying number for a product or service.	C AN	1/30
PO112	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO113	234	Product/Service ID Identifying number for a product or service.	C AN	1/30
PO114	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO115	234	Product/Service ID Identifying number for a product or service.	C AN	1/30
PO116	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO117	234	Product/Service ID Identifying number for a product or service.	C AN	1/30

PO118	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO119	234	Product/Service ID Identifying number for a product or service.	C AN	1/30
PO120	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO121	234	Product/Service ID Identifying number for a product or service.	C AN	1/30
PO122	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO123	234	Product/Service ID Identifying number for a product or service.	C AN	1/30
PO124	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID	2/2
PO125	234	Product/Service ID Identifying number for a product or service.	C AN	1/30

Segment: **PID** Product/Item Description
Level: Detail
Loop: PO1/PID **Repeat:** 1000
Usage: Optional
Max Use: 1
Purpose: To describe a product or process in coded or free-form format
Syntax: 1 **C0403**
 If PID04 is present, then PID03 is required.
 2 **R0405**
 At least one of PID04 or PID05 is required.
 3 **C0703**
 If PID07 is present, then PID03 is required.
 4 **C0803**
 If PID08 is present, then PID03 is required.
Semantic: 1 Use PID03 to indicate the organization that publishes the code list being referred to.
 2 PID04 should be used for industry-specific product description codes.
 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item. A "N" indicates it does not apply. Any other value is indeterminate.
Comments: A If PID01 = "F", then PID05 is used. If PID01 = "S", then PID04 is used. If PID01 = "X", then both PID04 and PID05 are used.
 B Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 C PID07 specifies the individual code list of the agency specified in PID03.
Notes: **Recommended by PIDX**

Data Element Summary

REF. DIS.	DATA ELEMENT	NAME	ATTRIBUTES
PID01	349	Item Description Type Code indicating the format of a description. F Free-form	M ID 1/1
PID02	750	Product/Process Characteristic Code Code identifying the general class of a product or process characteristic. Not Recommended by PIDX	O ID 2/3
PID03	559	Agency Qualifier Code Code identifying the agency assigning the code values.	C ID 2/2

Not Recommended by PIDX

PID04 751 **Product Description Code** C AN 1/12
 A code from an industry code list which provides specific data about a product characteristic.
Not Recommended by PIDX

PID05 352 **Description** C AN 1/80
 A free-form description to clarify the related data elements and their content.
Recommended by PIDX

PID06 752 **Surface/Layer/Position Code** O ID 2/2
 Code indicating the product surface, layer or position that is being described.
Not Recommended by PIDX

PID07 822 **Source Subqualifier** O AN 1/15
 A reference that indicates the table or text maintained by the Source Qualifier.
Not Recommended by PIDX

PID08 1073 **Yes/No Condition or Response Code** O ID 1/1
 Code indicating a Yes or No condition or response.
Not Recommended by PIDX

FINAL

Segment: **PWK** Paperwork
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 25
Purpose: To identify the type and transmission of paperwork or supporting information
Syntax: 1 **P0506**
 If either PWK05 or PWK06 is present, then the other is required.
Comments: **A** PWK05 and PWK06 may be used to identify the addressee by a code number.
B PWK07 may be used to indicate special information to be shown on the specified report.
C PWK08 may be used to indicate action pertaining to a report.
Notes: **The PWK segment is not commonly used at both the Header and Detail Level. It is preferred to be used at the Header Level or Detail Level, but not both.**
This segment should be used only if "Attached" paperwork is applicable.

Data Element Summary

REF. DES.	DATA ELEMENT NAME	ATTRIBUTES
PWK01	755 Report Type Code	M ID 2/2
	Code indicating the title or contents of a document, report or supporting item	
	The business being conducted may require other Report Type Codes, but those listed below are recommended and will cover a large portion of the transactions.	
	12 Mechanical Properties	
	BM Bill of Material	
	CT Certification	
	IT Certified Inspection and Test Results	
	MS Material Safety Data Sheet	
	SI Seller Inventory Report	
PWK02	756 Report Transmission Code	O ID 2/2
	Code defining timing, transmission method or format by which reports are to be sent	
	Required by PIDX	
	The preferred method should be first in a X12 transaction set, if available, but electronically never the less.	
	AE Electronically After Shipping	
	BM By Mail	

		EL Electronically Only	
		FX By Fax	
PWK03	757 Report Copies Needed	O NO 1/2	
	The number of copies of a report that should be sent to the addressee.		
	Not Recommended by PIDX		
PWK04	98 Entity Identifier Code	O ID 2/2	
	Code identifying an organizational entity, a physical location, or an individual		
	Not Recommended by PIDX		
PWK05	66 Identification Code Qualifier	C ID 1/2	
	Code designating the system/method of code structure used for Identification Code (67).		
	Not Recommended by PIDX		
PWK06	67 Identification Code	C AN 2/17	
	Code identifying a party or other code.		
	Not Recommended by PIDX		
PWK07	352 Description	O AN 1/80	
	A free-form description to clarify the related data elements and their content.		
	Not Recommended by PIDX		
PWK08	704 Paperwork/Report Action Code	O ID 1/2	
	Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required.		
	Not Recommended by PIDX		

Segment: **PKG** Marking, Packaging, Loading
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 200
Purpose: To describe marking, packaging, loading and unloading requirements.
Syntax: **1 R040506**
 At least one of PKG04, PKG05 or PKG06 is required.
2 C0401
 If PKG04 is present, then PKG01 is required.
3 C0501
 If PKG05 is present, then PKG01 is required.
Semantic: **1** PKG04 should be used for industry-specific packaging description codes.
Comments: **A** Use MEA (Measurements) segment to define dimensions, tolerances weights, counts, physical restrictions, etc.
B If PKG01 = "F", then PKG05 is used. If PKG01 = "S", then PKG04 is used. If PKG01 = "X", then both PKG04 and PKG05 are used.
C Use PKG03 to indicate the organization that publishes the code list being referred to.
D Special marking or tagging data can be given in PKG05 (Description).
Notes: **For use only in International Shipments.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PKG01	349	Item Description Type Code indicating the format of a description. F Free-form	C ID 1/1
PKG02	753	Packaging Characteristic Code Code specifying the marking, packaging, loading and related characteristics being described. 34 Product Marking 35 Type of Package 36 Package Specifications 68 Skid/Pallet Type	O ID 1/5
PKG03	559	Agency Qualifier Code Code identifying the agency assigning the code values. Not Recommended by PIDX	C ID 2/2

PKG04 754 Packaging Description Code C AN 1/7
 A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product.
Not Recommended by PIDX
PKG05 352 Description C AN 1/80
 A free-form description to clarify the related data elements and their content.
PKG06 400 Unit Load Option Code O ID 2/2
 Code identifying loading or unloading a shipment
Not Recommended by PIDX

FINAL

Segment: REF Reference Numbers
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 12
Purpose: To specify identifying numbers.
Syntax: 1 R0203
 At least one of REF02 or REF03 is required.

Notes: This segment is not to be used for additional "Ship To" information.

The REF segment is used only for accounting description and/or codes. If used, at least one of the following qualifiers is required which is provided by the customer: "AE", "CR", "DJ", "LU", or "WN". The direction of PIDX is to move toward the use of a single qualifier ("CR").

The REF segment is not commonly used at both the Header and Detail Level. It is preferred to be used at the Header Level or Detail Level, but not both. It may be used at both the Header Level and Detail Level where business issues dictate between trading partners.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
		AE Authorization for Expense (AFE) Number	
		CR Customer Reference Number	
		DJ Delivery Ticket Number	
		LU Location Number	
		WN Well Number	
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80

Segment: PER Administrative Communications Contact
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed

Syntax: 1 P0304
 If either PER03 or PER04 is present, then the other is required.
 2 P0506
 If either PER05 or PER06 is present, then the other is required.

Notes: This PER segment in the Detail section should not be used if used in the Header section.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named.	M ID 2/2
		BD Buyer Name or Department	
		DC Delivery Contact	
		OC Order Contact	
		SR Sales Representative or Department	
PER02	93	Name Free-form name.	O AN 1/35
		Recommended by PIDX	
PER03	365	Communication Number Qualifier Code identifying the type of communication number.	C ID 2/2
		ED Electronic Data Interchange Access Number ED Qualifier is used pending the approval of a new qualifier for Employee Identification Code.	
		EM Electronic Mail	
		FX Facsimile	
		TE Telephone	
		TL Telex	
PER04	364	Communication Number Complete communications number including country or area code when applicable.	C AN 1/25
PER05	365	Communication Number Qualifier Code identifying the type of communication number.	C ID 2/2
PER06	364	Communication Number Complete communications number including country or area code when applicable.	C AN 1/25

Segment: **SSS** Special Services
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 25
Purpose: To specify special conditions or services associated with the purchased product
Comments: **A** SSS02 identifies the source of the code value in SSS03.
B SSS07 (Description) is normally used to clarify/expand on the services to be provided.
C SSS09 specifies the individual code list of the agency specified in SSS02.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SSS01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified.	M ID 1/1
SSS02	559	Agency Qualifier Code Code identifying the agency assigning the code values.	M ID 2/2
SSS03	560	Special Services Code Code identifying the special service.	M ID 2/10
SSS04	561	Service Marks and Numbers Data used to identify the performance of the service specified by Special Services Code (560).	O AN 1/45
SSS05	359	Allowance or Charge Rate Allowance or Charge Rate per Unit.	O R 1/9
SSS06	360	Allowance or Charge Total Amount Total dollar amount for the allowance or charge.	O N2 1/9
SSS07	352	Description A free-form description to clarify the related data elements and their content.	O AN 1/80
SSS08	380	Quantity Numeric value of quantity.	O R 1/15
SSS09	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier.	O AN 1/15

Segment: **ITA** Allowance, Charge or Service
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 10
Purpose: To specify allowances, charges or services
Syntax: **1 L02031314**
If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 are required.
2 C0809
If ITA08 is present, then ITA09 is required.
3 C1011
If ITA10 is present, then ITA11 is required.
4 C1502
If ITA15 is present, then ITA02 is required.
Semantic: **1** ITA12 is the quantity of free goods.
Comments: **A** If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
B ITA02 identifies the source of the code value in ITA03 or ITA14.
C If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
D ITA13 is used to clarify the allowance, charge or service.
E ITA15 specifies the individual code list of the agency specified in ITA02.
F ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified. A Allowance C Charge	M ID 1/1
ITA02	559	Agency Qualifier Code Code identifying the agency assigning the code values. Required by PIDX AX ANSI Accredited Standards Committee, X12.	C ID 2/2
ITA03	560	Special Services Code Code identifying the special service. Not Recommended by PIDX	C ID 2/10

ITA04	331	Allowance or Charge Method of Handling Code	M	ID	2/2
Code indicating method of handling for an allowance or charge.					
02 Off Invoice					
06 Charge to be Paid by Customer					
ITA05	341	Allowance or Charge Number	O	AN	1/16
The number assigned by a vendor referencing an allowance, promotion, deal or charge.					
ITA06	359	Allowance or Charge Rate	O	R	1/9
Allowance or Charge Rate per Unit.					
ITA07	360	Allowance or Charge Total Amount	O	N2	1/9
Total dollar amount for the allowance or charge.					
Required by PIDX					
ITA08	378	Allowance/ Charge Percent Qualifier	O	ID	1/1
Code indicating on what basis allowance or charge percent is calculated.					
ITA09	332	Allowance or Charge Percent	C	R	1/6
Allowance or charge expressed as a percent.					
ITA10	339	Allowance or Charge Quantity	O	R	1/10
Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.					
ITA11	355	Unit or Basis for Measurement Code	C	ID	2/2
Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
ITA12	380	Quantity	O	R	1/15
Numeric value of quantity.					
ITA13	352	Description	C	AN	1/80
A free-form description to clarify the related data elements and their content.					
Recommended by PIDX					
If additional information is available in ITA014, ITA013 should contain that description.					
ITA14	150	Special Charge or Allowance Code	C	ID	3/3
Code identifying type of special charge or allowance.					
Recommended by PIDX					
These are recommended codes. Try to use these codes if possible. If not applicable, any relevant code in Table 150 may be used.					
400 Freight					
405 Fuel Surcharge					
690 Special Handling Service					
DSC Discount					
INC Insurance Surcharge					
LAE One-Time License Fee					
RAK Royalties					
ITA15	822	Source Subqualifier	O	AN	1/15
A reference that indicates the table or text maintained by the Source Qualifier.					
Not Recommended by PIDX					

ITA16	662	Price Relationship Code	O	ID	1/1
Code indicating the relationship of the price or amount to the associated segment.					
Not Recommended by PIDX					

Segment: TAX Tax Reference
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 3

Purpose: To provide data required for proper notification/determination of applicable taxes applying to the transaction or business described in the transaction

- Syntax:**
- 1 R0103**
At least one of TAX01 or TAX03 is required.
 - 2 P0203**
If either TAX02 or TAX03 is present, then the other is required.
 - 3 P0405**
If either TAX04 or TAX05 is present, then the other is required.
 - 4 P0607**
If either TAX06 or TAX07 is present, then the other is required.
 - 5 P0809**
If either TAX08 or TAX09 is present, then the other is required.
 - 6 P1011**
If either TAX10 or TAX11 is present, then the other is required.

Comments: **A** Tax ID number is, in many instances, referred to as a "Tax Exemption Number." The paired (combined) use of data elements 309 and 310 provides for the designation of five (5) taxing jurisdictions.

B TAX01 is required if tax exemption is being claimed.

Notes: It is PIDX's recommendation that the TAX segment be provided at the Detail Level to support tax exemptions. However, many systems cannot provide Detail Level TAX segments at this time, therefore, the TAX at the Detail Level is not currently required.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TAX01	325	Tax Identification Number Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.), often called a tax exemption number or certificate number.	C AN 1/20
TAX02	309	Location Qualifier Code identifying type of location.	C ID 1/2
TAX03	310	Location Identifier Code which identifies a specific location.	C AN 1/25

TAX04	309	Location Qualifier Code identifying type of location.	C ID 1/2
TAX05	310	Location Identifier Code which identifies a specific location.	C AN 1/25
TAX06	309	Location Qualifier Code identifying type of location.	C ID 1/2
TAX07	310	Location Identifier Code which identifies a specific location.	C AN 1/25
TAX08	309	Location Qualifier Code identifying type of location.	C ID 1/2
TAX09	310	Location Identifier Code which identifies a specific location.	C AN 1/25
TAX10	309	Location Qualifier Code identifying type of location.	C ID 1/2
TAX11	310	Location Identifier Code which identifies a specific location.	C AN 1/25
TAX12	441	Tax Exempt Code Code identifying exemption status from sales and use tax.	O ID 1/1

Segment: **DTM** Date/Time Reference
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax: 1 R0203
 At least one of DTM02 or DTM03 is required.
Notes: **Recommended by PIDX**

The DTM segment is not commonly used at both the Header and Detail level. It is preferred to be used at the Header Level or Detail Level, but not both.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
		002 Delivery Requested 010 Requested Ship 074 Requested for Delivery 079 Promised for Shipment 150 Service Period Start 151 Service Period End	
DTM02	373	Date Date (YYMMDD).	C DT 6/6
		Required by PIDX	
DTM03	337	Time Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	C TM 4/6
DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time. Since + is a restricted character, + and - are substituted by P and M in the codes that follow.	O ID 2/2
DTM05	624	Century The first two characters in the designation of the year (CCYY).	O NO 2/2

Segment: **SCH** Line Item Schedule
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 200
Purpose: To specify the data for scheduling a specific line item.
Set Notes: 1 The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.
Syntax: 1 C0304
 If SCH03 is present, then SCH04 is required.
 2 C0908
 If SCH09 is present, then SCH08 is required.
Comments: A SCH05 specifies the interpretation to be used for SCH06 and SCH07.
Notes: Do not use if using a DTM segment. This segment is ONLY to be used when the line items requires multiple shipping quantities for specific dates.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SCH01	380	Quantity Numeric value of quantity.	M R 1/15
SCH02	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M ID 2/2
SCH03	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	O ID 2/2
		Not Used by PIDX	
SCH04	93	Name Free-form name.	C AN 1/35
		Not Used by PIDX	
SCH05	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
		002 Delivery Requested	
		010 Requested Ship	
		074 Requested for Delivery (Prior to and Including)	
		079 Promised for Shipment	
		150 Service Period Start	
		151 Service Period End	

SCH06	373	Date Date (YYMMDD).	M DT 6/6
SCH07	337	Time Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O TM 4/6
SCH08	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	C ID 3/3
Not Used by PIDX			
SCH09	373	Date Date (YYMMDD).	O DT 6/6
Not Used by PIDX			
SCH10	337	Time Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O TM 4/6
Not Used by PIDX			
SCH11	326	Request Reference Number Reference number or RFQ number to use to identify a particular transaction set and query (additional reference number or description which can be used with contract number).	O AN 1/45

FINAL

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)
Level: Detail
Loop: PO1
Usage: Optional
Max Use: 12
Purpose: To specify the carrier, sequence of routing and to provide transit time information
Syntax:

- 1 **R0204050612**
At least one of TD502, TD504, TD505, TD506 or TD512 is required.
- 2 **C0203**
If TD502 is present, then TD503 is required.
- 3 **C0708**
If TD507 is present, then TD508 is required.
- 4 **C1011**
If TD510 is present, then TD511 is required.

Comments: **A** When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement: use TD502 to identify the party responsible for defining the routing sequence; use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Notes: **The TD5 segment is not commonly used at both the Header and Detail Level. It is preferred to be used at the Header Level or Detail Level, but not both.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement.	O ID 1/2
B Origin/Delivery Carrier (Any Mode)			
O Origin Carrier (Air, Motor, or Ocean)			
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
30 American Petroleum Institute Location Code			
6 Plant Code			
7 Dock			
TD503	67	Identification Code Code identifying a party or other code.	C AN 2/17
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment.	C ID 1/2
A Air			
AE Air Express			

		D Parcel Post			
		E Expedited Truck			
		H Customer Pickup			
		M Motor (Common Carrier)			
		R Rail			
		S Ocean			
		SR Supplier Truck			
		T Best Way (Shippers Option)			
TD505	387	Routing	C AN	1/35	Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.
TD506	368	Shipment/Order Status Code	C ID	2/2	Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction.
TD507	309	Location Qualifier	O ID	1/2	Code identifying type of location.
TD508	310	Location Identifier	C AN	1/25	Code which identifies a specific location.
TD509	731	Transit Direction Code	O ID	2/2	The point of origin and point of direction.
TD510	732	Transit Time Direction Qualifier	O ID	2/2	Code specifying the value of time used to measure the transit time.
TD511	733	Transit Time	C R	1/4	The numeric amount of transit time.
TD512	284	Service Level Code	C ID	2/2	Code defining service

Segment: **N1** Name
Level: Detail
Loop: PO1/N1 **Repeat:** 200
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name and code
Syntax: **1 R0203**
 At least one of N102 or N103 is required.
2 P0304
 If either N103 or N104 is present, then the other is required.
Comments: **A** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
Notes: **This segment is for the identification of the manufacturer of the item in the PO1 segment.**
This segment is not for additional "Ship To" Information.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
		MF Manufacturer of Goods	
N102	93	Name	C AN 1/35
		Free-form name.	
N103	66	Identification Code Qualifier	C ID 1/2
		Code designating the system/method of code structure used for Identification Code (67).	
		Not Recommended by PIDX	
N104	67	Identification Code	C AN 2/17
		Code identifying a party or other code.	
		Not Recommended by PIDX	

Segment: N2 Additional Name Information
Level: Detail
Loop: PO1/N1
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N201	93	Name Free-form name.	M AN 1/35
N202	93	Name Free-form name.	O AN 1/35

FINAL

Segment: N3 Address Information
Level: Detail
Loop: PO1/N1
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N301	166	Address Information Address information	M AN 1/35
N302	166	Address Information Address information	O AN 1/35

FINAL

Segment: **N4** Geographic Location
Level: Detail
Loop: PO1/N1
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party

Syntax: **1 R0105**
At least one of N401 or N405 is required.
2 P0506
If either N405 or N406 is present, then the other is required.

Comments: **A** A combination of either N401 through N404 (or N405 and N406) may be adequate to specify a location.
B N402 is required only if city name (N401) is in the USA or Canada.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N401	19	City Name Free-form text for city name.	C AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency. Code list in: STATES AND OUTLYING AREAS OF THE USA (SD) Catalog No. C52. 13:5-1 Available from: Superintendent of Documents U.S. Government Printing Office Washington, DC 20402 Refer to API Bulletin D12A.	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States).	O ID 3/9
N404	26	Country Code Code identifying the country. Code list in: CODES FOR REPRESENTATION OF NAMES OF COUNTRIES (ISO 3166-1974 (E)) Available from: American National Standards Institute 1430 Broadway New York, NY 10018 Refer to API Bulletin D12A.	O ID 2/3
N405	309	Location Qualifier Code identifying type of location.	C ID 1/2
N406	310	Location Identifier Code which identifies a specific location.	C AN 1/25

Segment: **SLN** Subline Item Detail
Level: Detail
Loop: PO1/SLN **Repeat:** 1000
Usage: Optional
Max Use: 1

Purpose: To specify product subline detail item data
Syntax: **1 C0706**
If SLN07 is present, then SLN06 is required.

2 C0806
If SLN08 is present, then SLN06 is required.

3 C0910
If SLN09 is present, then SLN10 is required.

4 C1112
If SLN11 is present, then SLN12 is required.

5 C1314
If SLN13 is present, then SLN14 is required.

6 C1516
If SLN15 is present, then SLN16 is required.

7 C1718
If SLN17 is present, then SLN18 is required.

8 C1920
If SLN19 is present, then SLN20 is required.

9 C2122
If SLN21 is present, then SLN22 is required.

10 C2324
If SLN23 is present, then SLN24 is required.

11 C2526
If SLN25 is present, then SLN26 is required.

12 C2728
If SLN27 is present, then SLN28 is required.

Semantic: **1** SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

Comments: **A** See the Data Dictionary for a complete list of ID's.
B SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
C SLN09 through SLN28 provide for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SLN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set.	M AN 1/11
SLN02	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set.	O AN 1/11
SLN03	661	Configuration Code Code indicating the relationship of the subline item to the baseline item.	M ID 1/1
SLN04	380	Quantity Numeric value of quantity.	M R 1/15
SLN05	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M ID 2/2
SLN06	212	Unit Price Price per unit of product, service, commodity, etc.	C R 1/14
SLN07	639	Basis of Unit Price Code Code identifying the type of unit price for an item.	O ID 2/2
SLN08	662	Price Relationship Code Code indicating the relationship of the price or amount to the associated segment.	O ID 1/1
SLN09	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN10	234	Product/Service ID Identifying number for a product or service.	C AN 1/30
SLN11	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN12	234	Product/Service ID Identifying number for a product or service.	C AN 1/30
SLN13	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN14	234	Product/Service ID Identifying number for a product or service.	C AN 1/30
SLN15	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN16	234	Product/Service ID Identifying number for a product or service.	C AN 1/30
SLN17	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN18	234	Product/Service ID Identifying number for a product or service.	C AN 1/30
SLN19	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN20	234	Product/Service ID Identifying number for a product or service.	C AN 1/30
SLN21	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN22	234	Product/Service ID Identifying number for a product or service.	C AN 1/30

SLN23	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN24	234	Product/Service ID Identifying number for a product or service.	C AN 1/30
SLN25	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN26	234	Product/Service ID Identifying number for a product or service.	C AN 1/30
SLN27	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
SLN28	234	Product/Service ID Identifying number for a product or service.	C AN 1/30

- Segment:** **PID** Product/Item Description
Level: Detail
Loop: PO1/SLN
Usage: Optional
Max Use: 1000
Purpose: To describe a product or process in coded or free-form format
Syntax: 1 **C0403**
 If PID04 is present, then PID03 is required.
 2 **R0405**
 At least one of PID04 or PID05 is required.
 3 **C0703**
 If PID07 is present, then PID03 is required.
 4 **C0803**
 If PID08 is present, then PID03 is required.
- Semantic:** 1 Use PID03 to indicate the organization that publishes the code list being referred to.
 2 PID04 should be used for industry-specific product description codes.
 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item. A "N" indicates it does not apply. Any other value is indeterminate.
- Comments:** A If PID01 = "F", then PID05 is used. If PID01 = "S", then PID04 is used. If PID01 = "X", then both PID04 and PID05 are used.
 B Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 C PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PID01	349	Item Description Type Code indicating the format of a description. F Free-form	M ID 1/1
PID02	750	Product/Process Characteristic Code Code identifying the general class of a product or process characteristic. Not Used by PIDX	O ID 2/3
PID03	559	Agency Qualifier Code Code identifying the agency assigning the code values. Not Used by PIDX	C ID 2/2

- PID04 751 **Product Description Code** C AN 1/12
 A code from an industry code list which provides specific data about a product characteristic.
Not Used by PIDX
- PID05 352 **Description** C AN 1/80
 A free-form description to clarify the related data elements and their content.
Recommended by PIDX
- PID06 752 **Surface/Layer/Position Code** O ID 2/2
 Code indicating the product surface, layer or position that is being described.
Not Used by PIDX
- PID07 822 **Source Subqualifier** O AN 1/15
 A reference that indicates the table or text maintained by the Source Qualifier.
Not Used by PIDX
- PID08 1073 **Yes/No Condition or Response Code** O ID 1/1
 Code indicating a Yes or No condition or response.
Not Used by PIDX

FINAL

Segment: **CTT** Transaction Totals
Level: Summary
Loop: _____
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Set Notes: 1 The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.
Syntax: 1 **C0304**
 If CTT03 is present, then CTT04 is required.
 2 **C0506**
 If CTT05 is present, then CTT06 is required.
Comments: A This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CTT01	354	Number of Line Items Total number of line items in the transaction set.	M NO 1/6
CTT02	347	Hash Total Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the leftmost digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. <u>18.01</u> Fourth occurrence of value being hashed. 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O R 1/10
Not Recommended by PIDX			
CTT03	81	Weight Numeric value of weight.	O R 1/10
Not Recommended by PIDX			
CTT04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
Not Recommended by PIDX			
CTT05	183	Volume Value of volumetric measure.	O R 1/8
Not Recommended by PIDX			

CTT06 355 **Unit or Basis for Measurement Code** C ID 2/2
 Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
Not Recommended by PIDX

CTT07 352 **Description** O AN 1/80
 A free-form description to clarify the related data elements and their content.
Not Recommended by PIDX

Segment: **AMT** Monetary Amount

Level: Summary

Loop: _____

Usage: Optional

Max Use: 1

Purpose: To indicate the total monetary amount.

Set Notes: 1 If AMT is used in the summary area, then AMT01 will = TT and AMT02 will indicate total transaction amount as calculated by the sender.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AMT01	522	Amount Qualifier Code Code to qualify amount	M ID 1/2
		TT Total Transaction Amount	
AMT02	782	Monetary Amount Monetary amount.	M R 1/15

FINAL

Segment: **SE** Transaction Set Trailer

Level: Summary

Loop: _____

Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Comments: A SE is the last segment of each transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments.	M NO 1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set This must be the same number as in the ST segment (ST02) for the transaction set.	M AN 4/9

FINAL